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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/583,939	06/07/2007	Takayuki Ohnuma	060419	1457
23850 7590 06/22/2011 KRATZ, QUINTOS & HANSON, LLP 1420 K Street, N.W. 4th Floor WASHINGTON, DC 20005			EXAMINER OMGBA, ESSAMA	
			ART UNIT 3726	PAPER NUMBER
			MAIL DATE 06/22/2011	DELIVERY MODE PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.



**DETAILED ACTION**

***Election/Restrictions***

1. Applicant's election without traverse of the invention of Group I, claims 1-13, in the reply filed on April 11, 2011 is acknowledged.

***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 8-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 4, 8 and 11 recite the limitation "the diameter of an inner peripheral portion of the member" in lines 3-4 of each of the claims. There is insufficient antecedent basis for this limitation in the claims.

***Claim Rejections - 35 USC § 102***

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Simon (US Patent 4,435,972).

Simon discloses a method of forming a member 11 having an inside-diameter portion with a smaller diameter (fig. 1), the method comprising forming a large-diameter recess in a material (bore in section 13a in fig. 2), machining the recess (col. 2, lines 49-61) and swaging the material from an outside by inserting a mandrel having a diameter equal to a diameter of an inner peripheral portion of an aimed member (col. 2, lines 62-68 and figs. 3 and 4).

***Allowable Subject Matter***

6. Claims 2 and 3 are allowed.
7. Claims 4-13 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
8. The following is a statement of reasons for the indication of allowable subject matter: the prior art does not teach a method of forming a member having an undercut, the method comprising forming a recess having a diameter larger than a diameter of a diameter of an inner peripheral portion of the member, forming an undercut at an inner periphery of the recess, swaging from an outside the material into which a mandrel had been inserted so that an inside diameter of the material is decreased to an outside diameter of the mandrel with the undercut left, these in combination with the rest of the limitations in the claims.

### ***Conclusion***

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ESSAMA OMGBA whose telephone number is (571)272-4532. The examiner can normally be reached on M-F 9-6:30, 1st Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bryant can be reached on (571) 272-4526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Essama Omgba/  
Primary Examiner, Art Unit 3726

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